Please amend the claims as follows:

Listing of Claims:

- 1 1. (original): A perpendicular magnetic head, comprising:
- a first magnetic pole having a portion thereof that is exposed at an air bearing surface
- 3 (ABS) of the magnetic head;
- a second magnetic pole including a pole tip thereof that is exposed at said ABS;
- 5 a heating element being disposed between said first magnetic pole and said pole tip;
- an induction coil layer that is disposed between said first magnetic pole and said second
- 7 magnetic pole.
- 1 2. (original): A perpendicular magnetic head as described in claim 1 wherein said heating
- 2 element is disposed between said induction coil and said pole tip.
- 1 3. (original): A perpendicular magnetic head as described in claim 1 wherein said second
- 2 magnetic pole includes a shaping layer that is disposed in magnetic flux communication with
- 3 said first magnetic pole, and a probe layer which includes said pole tip, wherein said probe layer
- 4 is disposed in magnetic flux communication with said shaping layer.
- 1 4. (withdrawn): A perpendicular magnetic head as described in claim 3 wherein said
- 2 shaping layer is disposed between said heating element and said pole tip.
- 1 5. (original): A perpendicular magnetic head as described in claim 3 wherein said probe layer is
- 2 disposed between said heating element and said shaping layer.

- 1 6. (withdrawn): A perpendicular magnetic head, comprising:
- 2 a read head element;
- a first magnetic pole having a pole tip portion thereof that is exposed at an air bearing
- 4 surface (ABS) of the magnetic head;
- a second magnetic pole including a portion thereof that is exposed at said ABS;
- a heating element being disposed between said read head element and said pole tip; and
- an induction coil layer that is disposed between said first magnetic pole and said second
- 8 magnetic pole.
- 1 7. (withdrawn): A perpendicular magnetic head as described in claim 6 wherein said first
- 2 magnetic pole includes a shaping layer that is disposed in magnetic flux communication with
- 3 said second magnetic pole, and a probe layer which includes said pole tip, wherein said probe
- 4 layer is disposed in magnetic flux communication with said shaping layer.
- 1 8. (withdrawn): A perpendicular magnetic head as described in claim 7 wherein said
- 2 shaping layer is disposed between said heating element and said pole tip.
- 9. (original): A hard disk drive including a perpendicular magnetic head, comprising:
- a media disk being adapted for rotation in a first direction;
- 3 said magnetic head including:
- 4 a write head element including a magnetic pole having a pole tip portion thereof that is
- 5 exposed at an air bearing surface (ABS) of the magnetic head, and disposed to write magnetic
- 6 bits to portions of said media disk;

- a heating element being disposed proximate said pole tip, such that said heating element
- 8 is disposed to heat said portions of said magnetic disk prior to the writing of said magnetic bits to
- 9 said portions of said media disk.
- 1 10. (currently amended): A hard disk drive as described in claim 9, wherein said magnetic
- 2 head includes a second another magnetic pole having a portion thereof that is exposed at said
- 3 ABS;
- an induction coil that is disposed between said first magnetic pole and said second
- 5 <u>another</u> magnetic pole, and
- 6 wherein said heating element is disposed between said induction coil and said pole tip.
- 1 11. (currently amended): A hard disk drive as described in claim 10 wherein said second
- 2 magnetic pole includes a shaping layer that is disposed in magnetic flux communication with
- 3 said first another magnetic pole, and a probe layer which includes said pole tip, wherein said
- 4 probe layer is disposed in magnetic flux communication with said shaping layer.
- 1 12. (withdrawn): A hard disk drive as described in claim 11 wherein said shaping layer is
- 2 disposed between said heating element and said pole tip.
- 1 13. (original): A hard disk drive as described in claim 11 wherein said probe layer is
- 2 disposed between said heating element and said shaping layer.
- 1 14. (withdrawn): A hard disk drive as described in claim 10 wherein said first magnetic pole
- 2 includes a shaping layer that is disposed in magnetic flux communication with said second

- 3 magnetic pole, and a probe layer which includes said pole tip, wherein said probe layer is
- 4 disposed in magnetic flux communication with said shaping layer.
- 1 15. (withdrawn): A hard disk drive as described in claim 14 wherein said shaping layer is
- 2 disposed between said heating element and said pole tip.
- 1 16. (withdrawn): A method for fabricating a perpendicular magnetic head, comprising:
- 2 fabricating a first magnetic pole upon a layer of the magnetic head, wherein a portion of
- 3 said first magnetic pole is exposed at an air bearing surface (ABS) of said magnetic head;
- 4 fabricating a second magnetic pole in magnetic flux communication with said first
- 5 magnetic pole such that a pole tip portion of said second magnetic pole is exposed at said ABS;
- 6 fabricating an induction coil between said first magnetic pole and said second magnetic
- 7 pole;
- 8 fabricating a heating element within said magnetic head prior to fabrication of said
- 9 second magnetic pole.
- 1 17. (withdrawn): A method for fabricating a perpendicular magnetic head as described in
- 2 claim 16, wherein said step of fabricating said second magnetic pole includes the steps of
- 3 fabricating a probe layer that includes said pole tip, and fabricating a shaping layer portion of
- 4 said second magnetic pole upon said probe layer, wherein said shaping layer is formed in
- 5 magnetic flux communication with said first magnetic pole.
- 1 18. (withdrawn): A method for fabricating a perpendicular magnetic head as described in
- 2 claim 16, wherein said step of fabricating said second magnetic pole includes the steps of:

- 3 fabricating a shaping layer portion of said second magnetic pole and wherein said
- 4 shaping layer is formed in magnetic flux communication with said first magnetic pole, and
- forming a probe layer upon said shaping layer in magnetic flux communication therewith,
- 6 and wherein said pole tip is formed as a part of said probe layer.
- 1 19. (withdrawn): A method for fabricating a perpendicular magnetic head, comprising:
- 2 fabricating a first magnetic pole upon a layer of the magnetic head, wherein a pole tip
- 3 portion of said first magnetic pole is exposed at an air bearing surface (ABS) of said magnetic
- 4 head;
- fabricating a second magnetic pole in magnetic flux communication with said first
- 6 magnetic pole such that a portion of said second magnetic pole is exposed at said ABS;
- 7 fabricating an induction coil between said first magnetic pole and said second magnetic
- 8 pole;
- .9 fabricating a heating element within said magnetic head prior to fabrication of said first
- 10 magnetic pole.
- 1 20. (withdrawn): A method for fabricating a perpendicular magnetic head as described in
- 2 claim 19, wherein said step of fabricating said first magnetic pole includes the steps of
- 3 fabricating a probe layer that includes said pole tip subsequent to fabricating said heating
- 4 element, and fabricating a shaping layer portion of said first magnetic pole upon said probe layer.
- 1 21. (withdrawn): A method for fabricating a perpendicular magnetic head as described in
- 2 claim 19, wherein said step of fabricating said first magnetic pole includes the steps of:

- fabricating a shaping layer portion of said first magnetic pole and wherein said shaping
- 4 layer is formed in magnetic flux communication with said second magnetic pole, and
- forming a probe layer upon said shaping layer in magnetic flux communication therewith,
- 6 and wherein said pole tip is formed as a part of said probe layer.